CREANOVA Inc.
Division I Colorants Group

24 Hour Emergency Number 800-424-9300
24 Hour CHEMTREC Number 800-424-9300

Approval Date: April 27, 1998
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MSDS Number 8880836 BL-01

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name : **COLORTREND® EXTERIOR RED R**
Synonyms · Pigment Dispersion
Product Use/Class· Aqueous Colorant

Supplier/Manufacturer:
CREANOVA Inc.
Turner Place, P.O Box 365
Piscataway, NJ 08855
Environmental & Regulatory Affairs, Information Number. 732-981-5016

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients

	CAS Number	% (Wt./Wt.)
Talc, Magnesium silicate hydrate	014807-96-6	10 - 30 %
Ethylene glycol	000107-21-1	10 - 30 %
Diethylene glycol	000111-46-6	5 - 10 %
NJTSR No 56705700001-5024P	Trade Secret	1 - 5 %
NJTSR No 56705700001-6031P	Trade Secret	1 - 5 %
Surfactant NJTSR No 56705700001-5023P	Trade Secret	1 - 5 %

See Section 8 for Exposure Guidelines

3. HAZARDS IDENTIFICATION

***** EMERGENCY OVERVIEW ***:**
COLORTREND colorants may cause eye, skin and respiratory tract irritation

?OTENTIAL HEALTH EFFECTS

ye Contact.
According to test results on COLORTREND base mixtures, this product is classified as a moderate eye irritant May cause tearing, reddening and/or swelling.

kin Contact:
COLORTREND colorants may cause irritation.

halation.
COLORTREND colorants may cause irritation.

gestion:
Moderately toxic May be harmful if swallowed. Ingestion of ethylene glycol may cause abdominal discomfort or pain, nausea, vomiting, dizziness, drowsiness, irritability, and central nervous system effects Swallowing large volumes of ethylene glycol causes severe kidney damage and cardiopulmonary effects (metabolic acidosis) which may be fatal The human oral lethal dose is approximately 1 6 g/kg. Ingestion of excessive amounts of diethylene glycol causes abdominal discomfort or pain, nausea, vomiting, dizziness, central nervous system effects, kidney damage and cardiopulmonary effects (metabolic acidosis) which may be fatal (estimated human oral lethal dose, 1.0 to 1 2 g/kg) and may cause liver effects

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3. HAZARDS IDENTIFICATION (CONTINUED)

General.

Ethylene glycol may aggravate an existing kidney disease. Repeated skin contact with ethylene glycol may, in a very small proportion of cases, cause sensitization with the development of allergic contact dermatitis The incidence is significantly less than 1% with the undiluted material. Repeated inhalation of ethylene glycol mist may produce signs of central nervous system involvement, particularly dizziness and drowsiness Short term exposures to talc may cause lung irritation Long term excessive exposure to talc dust may cause talcosis, a pulmonary fibrosis which in turn may lead to severe and permanent damage to the lungs

NTP Toxicology and Carcinogenesis Studies of Talc revealed that there is some evidence of carcinogenic activity in male rats and clear evidence of carcinogenic activity in female rats There was no evidence of carcinogenic activity in male or female mice Because this product is a free-flowing liquid or paste, dust inhalation is not an expected route of exposure.

4. FIRST AID MEASURES

FIRST AID

Eye Contact:

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes or until all material has been removed Obtain medical attention.

Skin Contact:

Flush skin with plenty of water. Remove contaminated clothing Obtain medical attention if irritation develops or persists.

Inhalation·

If inhaled, remove to fresh air If breathing is difficult, give oxygen. If unconscious, evaluate the need for artificial respiration. Get immediate medical attention.

ngestion.

If swallowed give two glasses of water and induce vomiting immediately as directed by medical personnel Never give anything by mouth to an unconscious person Get medical attention immediately.

5. FIRE FIGHTING MEASURES

Flash Point: Not applicable

Lower Explosive Limit Not applicable

lash Point Method: Not applicable

Upper Explosive Limit· Not applicable

)SHA Flammability Classification None
utoignition Temperature: Not Determined

ther Flammable Properties:

Burning will produce hazardous compounds including oxides of. carbon. nitrogen sulfur Contains material that can burn in fire if contained water is evaporated by heat or fire

tinguishing Media:

In case of fire, use water (flood with water), dry chemical, CO2 or "alcohol" foam

e Fighting Procedures:

As in any fire, wear self-contained positive-pressure breathing apparatus, (MSHA/NIOSH approved or equivalent) and full protective gear. Containers can build up pressure if exposed to heat (fire) Cool with water spray

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6. ACCIDENTAL RELEASE MEASURES

Steps To Be Taken In Case Material Is Released Or Spilled:

Ventilate area. Absorb spill with inert material and place in a chemical waste container Obey relevant local, state, provincial and federal laws and regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil. Use personal protective equipment as described in Section 8.

7. HANDLING AND STORAGE

Handling:

Avoid contact with eyes, skin and clothing Use with adequate ventilation. Avoid breathing vapor or mist Follow all MSDS/label precautions even after container is emptied because it may retain product residues Wash thoroughly after handling

Storage:

Store in a cool, dry place. Keep container closed when not in use

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

	Value	Limit	Reference
Talc, Magnesium silicate hydrate	20 mppcf	TWA	OSHA
	2 mg/m3	TWA	ACGIH
	N.E.	STEL	OSHA/ACGIH
Ethylene glycol	100 mg/m3	Ceiling	ACGIH
	50 ppm	Ceiling	OSHA
	N E	TWA	OSHA/ACGIH
	N.E	STEL	OSHA/ACGIH
Diethylene glycol	N.E	TWA	OSHA/ACGIH
	N.E.	STEL	OSHA/ACGIH
NJTSR No. 56705700001-5024P	N E	TWA	OSHA/ACGIH
	N.E	STEL	OSHA/ACGIH
NJTSR No 56705700001-6031P	N.E	TWA	OSHA/ACGIH
	N.E	STEL	OSHA/ACGIH
NJTSR No. 56705700001-5023P	N E.	TWA	OSHA/ACGIH
	N E	STEL	OSHA/ACGIH

)ther Exposure Limit Information:

The exposure value for ethylene glycol is given as an aerosol
The AIHA WEEL for diethylene glycol is 50 PPM for total vapor and aerosol and 10 mg/m3 for aerosol alone (eight hour time-weighted averages). The OSHA TWA and ACGIH TWA exposure values for talc are for asbestos free talc expressed as millions of particles per cubic foot (mppcf)

ngineering Controls:

Use adequate ventilation

espiratory Protection:

A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH's "Respirator Decision Logic" may be useful in determining the suitability of various types of respirators

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION (CONTINUED)

Eye Protection:
Use chemical splash goggles

Skin Protection:
Use impermeable gloves

Other Protective Equipment:
A safety shower and eye wash fountain should be readily available To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132) be conducted before using this product

9. PHYSICAL AND CHEMICAL PROPERTIES

Vapor Pressure	: 17 mm @ 68°F
Vapor Density (Air = 1)	: Is heavier than air
Specific Gravity	: ~1.3
Boiling Point	> 212°F
pH @ 100.0%	8.0 to 9.3
Viscosity	: 75-90 KU @ 77°F
VOC Content (lbs./gal)	: 4.67
Evaporation Rate	: Is slower than Butyl Acetate

Other Properties:
Red Paste Glycol odor. Solubility in water: Dispersible.

10. STABILITY AND REACTIVITY

Stability:
This product is stable under normal storage conditions.

Hazardous Polymerization:
Will not occur under normal conditions

Conditions To Avoid:
Not Applicable.

Incompatibility With Other Materials:
Oxidizing materials. Strong acids.

11. TOXICOLOGICAL INFORMATION

Component Toxicological Information:

Chemical Name	Oral LD50 (rat)	Dermal LD50 (rabbit)	Inhalation LC50 (rat)
Ethylene glycol	4700 mg/kg	9530 mg/kg	1460 ppm/4H
Diethylene glycol	20,760 mg/kg	13,300 mg/kg	Not Available

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11. TOXICOLOGICAL INFORMATION (CONTINUED)

Other Toxicological Information:

According to long-term animal inhalation studies, very high concentrations of diethylene glycol vapors caused central nervous system effects in mice and rats. However, an extensive review of the literature shows that no such effects have been documented in humans (Patty's Industrial Hygiene and Toxicology, 1982, Third Revised Ed , Vol 2c, p 3838). Ethylene glycol has been shown to produce dose-related teratogenic effects in rats and mice when given by gavage or in drinking water at high concentrations or doses However there is no available information to suggest that ethylene glycol has caused birth defects in humans In a continuous breeding study of mice, continued ingestion of large amounts of diethylene glycol (6 g/kg/day) caused an adverse effect on fertility and some embryotoxic and fetotoxic effects concurrent with some maternal toxicity The relevance of these very high doses to humans is uncertain.

12. ECOLOGICAL INFORMATION

Ecological Information:

No information available

13. DISPOSAL CONSIDERATIONS

Disposal Method:

Waste must be disposed of in accordance with federal, state, provincial and local regulations CONTAINER DISPOSAL. Empty containers by removing the top and inverting to allow all free flowing product to drain To meet regulatory criteria, the container is considered empty when less than 3% remains in the container Additional special handling is not typically required and the empty container can be discarded with other non-hazardous trash.

Note: Local disposal regulations may be more stringent and require additional restrictions or precautions Customers should check with their local disposal company, municipal or state authority Recycle of plastic or metal containers may require clean rather than empty containers In this case the containers can be rinsed with water until the containers are considered generally product free

14. TRANSPORT INFORMATION

U.S. DOT Transport Information

Proper Shipping Name. Not regulated

5. REGULATORY INFORMATION

I.S. Federal Regulations

SHA

This document has been prepared in accordance with the MSDS requirements of the OSHA Hazard Communication Standard.

ean Air Act Section 112:

This product contains the following components present at or above the OSHA de minimus level and listed as Hazardous Air Pollutants:

	CAS Number	Wt %
Ethylene glycol	000107-21 1	10 - 30 %

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15. REGULATORY INFORMATION (CONTINUED)

This product contains the following components present at or above the OSHA de minimus level and listed as Extremely Hazardous Air Pollutants:

None

SARA Section 302
This product contains the following components listed as Extremely Hazardous Substances.

None

SARA Section 311/312.
Hazard Classifications: Immediate (acute), Delayed (chronic)

SARA Section 313·
This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

	CAS Number	Wt %
Ethylene glycol	000107-21-1	30(max)

SCA·
This product or its components are listed in or exempt from the TSCA inventory requirements

This product contains the following non-proprietary substances subject to export notification under Section 12(b) of TSCA.

	CAS Number	
2-Ethylhexanol	000104-76-7	Reportable one-time

tate Regulations
alifornia (Proposition 65).
This product contains the following substances known to the State of California to cause cancer

None
This product contains the following substances known to the State of California to cause adverse reproductive effects:

None
ternational Regulations
Summary of International Chemical Inventory Status

Canada	On inventory
Europe	On inventory
South Korea	Not on inventory
Australia	On inventory

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6. OTHER INFORMATION

MIS Ratings: Health - 2* Flammability - 1 Reactivity - 0
atings Key: 4 = Highest hazard, 0 = Lowest hazard,
* = Chronic health hazard, N = No rating for powders
FPA Ratings: Health - 1 Flammability - 1 Reactivity - 0
atings Key: 4 = Highest hazard, 0 = Lowest hazard, N = No rating for powders

ey to abbreviations used:

NA	Not applicable
NAV	Not available
NE	Not established
NJTSR No.	New Jersey Trade Secret Registry Number
®	Registered Trademark owned by or licensed to CREANOVA Inc., CREANOVA Canada Inc , CREANOVA Spezialchemie GmbH , or Röhm GmbH
™	Trademark owned by or licensed to CREANOVA Inc., CREANOVA Canada Inc , CREANOVA Spezialchemie GmbH., or Rohm GmbH.

evision Summary:
The following MSDS sections were revised since the previous version February 17, 1997

2 COMPOSITION/INFORMATION ON INGREDIENTS